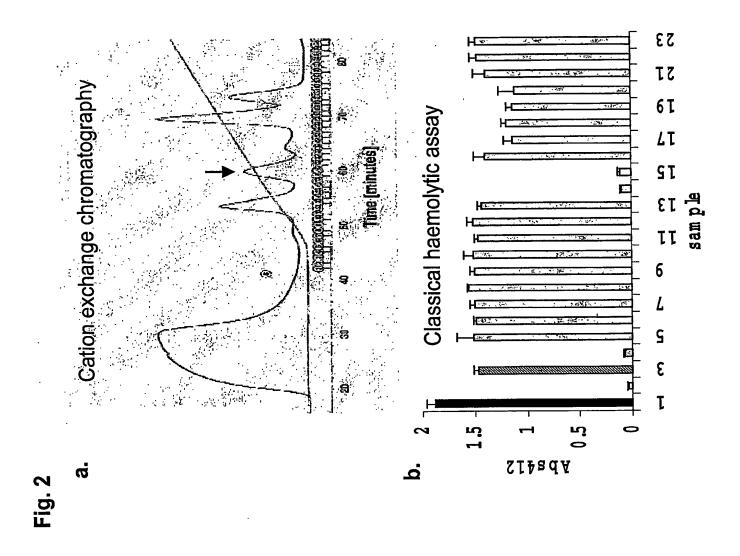
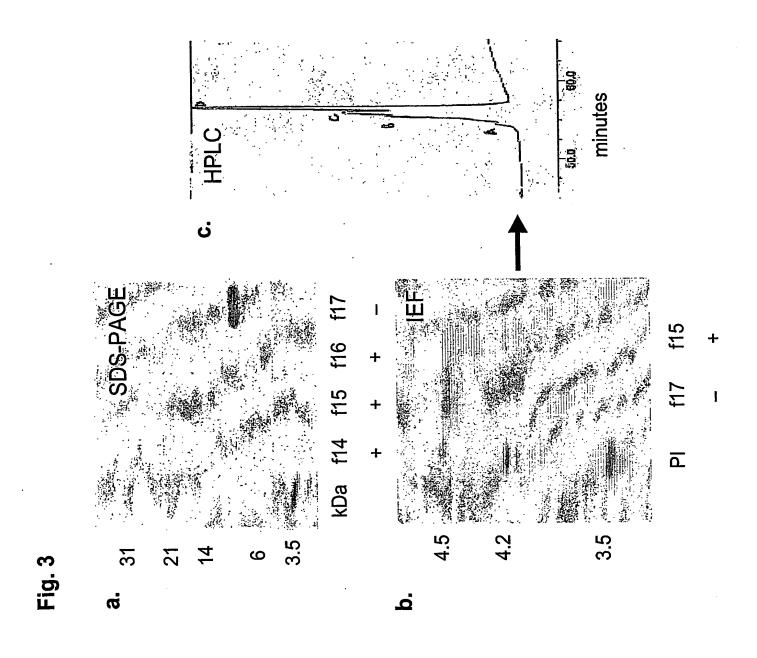


<u>E</u>



3/16



ATTCTGGTTTTGGTGACCCTGATTTTCTCCCTATCCGAACATGCGATATGCTGACAGG	4/ 10																	
ATGCTGGTTTTTGGTGACCCTGATTTTCTCCTTTTTCTCGGAACATCGCATATGCTGACAGC  M L V L V T L I F S F S A N I A Y B D S  GAAAGCGACTGCACTGTTGACGCTTTCCAGGCCTTTCCAGGCCAAA  E S D C T G S E P V D A F Q A F S E G K  GAGGCATATGCCGGAACCTGTTGACGCCTTTCCAGTGAGGCAAA  E A V V L V R S T D P K A R D C L K G E  CCAGCCGAGAAAAACCAGACCACCTGTTGCCGGTCATCATCACTCAAAGCACAA  D W A S T D W M T F K N T L D  GACTGGCTTCAACCCAAAATAACGAAACTGACACCTTTTGACCACAAAGGTAACGCACCTTT  G N L T Q N R E V V Y D S Q S H H C H V  GACAAGGTCGAGAAAATAACGAAAGTGGTCTACCACACACCTTT  G N L T Q N R E V V Y D S Q S H H C H V  GACAAGGTCGAAGAACTCCACAAATTACACAAAGTTTATGAACTCACTC	09	20			180	09	240	80	300	100	360	120	420	140	480	160	507	168
ATGCTGGTTTTGGTGACCCTGATTTTCTCCCTTTTTTGGCGAACATGGCATATGCTGGA    N	CAGC	ഗ	CAAA	×	AGAA	臼	CACA	E	CCTT	ᆸ	CGTT	>	3CTT	ᆸ	CCAA	Q		
ATGCTGGTTTTGGTGACCCTGATTTTCTCCTTTTCTGCGAACATCGCATATGC  M L V L V T L I F S F S A N I A Y A  GAAAGCGACTGCAACCTGAAGCGAACCTTTTCTCCAAGCTTTCAGTGA  E S D C T G S E P V D A F Q A F S E  GAGGCATATGTCCTGGTGAGGTCCACGGATCCCAAAGCGAGGGATTTCAGTGAA  E A Y V L V R S T D P K A R D C L K  CCAGCCGGAGAAAAGCAGACAACACGTTGCCGGTGATGATGATGATGAAA  P A G E K Q D N T L P V M M T F K N  GACTGGGCTTCAACCGATTGGACGTTTACTTTGGACGCGCAAAGGTAACGGC  D W A S T D W T F T L D G A K V T A  GGTAACCTAACCCAAATAGGAAGTGCTTACTTTGGACGCCCAAAGGTAACCTG  G N L T Q N R E V V Y D S Q S H H C  GACAAAGGTCGAAAATAGGGAAGTGCTCAAATATGAGATGTCCATGAGGTAACGGCG  D K V E K B V P D Y E M M L D A G  GAAGTGGAAGTCCAAAATAACAAAAAGCTAAAAGAAGTTGAAGATTGAAGATTGAAGATTGAAGAAGTTCAAAAAAGAAGTTCAAAAAAAGAAGTTCAAAAAAAGAAATTAATGAAAAAGAAGTTCAAAAAAAGAAAAAAAA	rgA(	Д	3GG(	Ŋ	4GGZ	ט	rgg(	ט	4AC(	E	CCA(	田	4GG(	ט	3AA(	z		
ATGCTGGTTTTGGTGACCCTGATTTTCTCCTTTTCTGCGAACATCGCATA  M L V L V L V T L I F S F S A N I A Y  GAAGCGACTGCACTGGAAGCGAACCTGTTGACGCTTCCCAAGCTTTCAG  E S D C T G S E P V D A F Q A F S  GAGGCATATGTCCTGGTGAGGTCCACGGATCCCAAAGCGAGGGACTGCTT  E A Y V L V R S T D P K A R D C L  CCAGCCGGAGAAAGCAACACACACACGATTCCAAAGCGAGGACTGCTTAA  P A G E K Q D N T L P V M M T F K  GACTGGTCAAACCCAAAATAACACAAACATTTGAACAAAGCTAAAC  G N L T Q N R E V V Y D S Q S H H  GACAAGGTCGAAAAGCAAAATAACAGAAATTAACATTTTGAACAAAGCTAAAGCTAAAC  G N L T Q N R E V V Y D S Q S H H  GACAAGGTCGAAAGGAAAGTTCCAGATTATGAAGATTTGAAGAGTTCTTAA  GACAAGGTCGAAAAGCTCCAAAAATAACAGAATTATGAAGAATTTAAAAAACTTAAAAAAAA	IGC	Ø	TGA(	团	3AA	×	3AA!	Z	3GC	ø	CTG(	ບ	3GG	r D	CAG(	ഷ		
ATGCTGGTTTTGGTGACCCTGATTTTCTCCTTTTCTGCGAACATCGC  M L V L V T L I F S F S A N I A  GAAAGCGACTGCACTGGAAGCGAACCTGTTGACGCCTTCCAAGCTTTT  E S D C T G S E P V D A F Q A F  GAGCCATATGTCCTGGTGAGGTCCACGGATCCCAAAGCGTGACTG  E A Y V L V R S T D F K A R D C  CCAGCCGAGAAAAGCAACACACTTTCCAAAGCGAAGGTCTT  P A G E K Q D N T L P V M T F  GACTGGGCTTCAACCGATTGGACGTTTACTTTTGGACGCCCAAAGGT  D W A S T D W T F T L D G A K V  GGTAACCTAACCCAAAATAGGGAAGTGGTCTACGACTCGCAAAGGT  G N L T Q N R E V V Y D S Q S H  GACAAGGTCGAGAAGTTCCAGATTATGAGATGTCTCGA  G N L T Q N R E V V Y D S Q S H  GACAAGGTCGAAAGGAAGTTCCAGATTATGAGATGTCGGATCCGA  G N L T Q N R E V N N D S Q S H  GACAAGGTCGAGAAGTTCCAGATTATGAGATGTCGGATCCGA  GACAAGGTCGAGAAGTTCCAGATTATGAGATGTCGGATCCGA  GACAAGGTCGAGAAGTCCCAAAATAGGGAAGTTCTAGAAGGTCCGAAAGTCCAAAGTCCAAAGTCCAAAGTCCAAAGTCCAAAGTCCAAAGTCCAAAGTCCAAAGTCCAAAATAGGGAAGTCCAAAATAGGGAAGTCCAAAATAGGGAAGTTCAAAAACTCTCAAAAATAGGAAAATAAAAAAAA	ATA'	×	CAG	ഗ	CTT(	ᆸ	TAA(	X	AAC	₽	TCA	Ħ	IGC	ø	TGG(	ರ		
M L V L V T L I F S F S A N I  GAAAGCGACTGCACTGGAAGCCACTGTTGCGAACAT  GAAAGCGACTGCACTGGAAGCGAACCTGTTGACGCTTCCAAGC  E S D C T G S E P V D A F Q A  GAGGCATATGTCCTGGTGAGGTCCACGGATCCCAAAGCGAGGA  E A Y V L V R S T D P K A R D  CCAGCCGAGAAAAAGCAGAACACACTTTTGGACGAGGAA  D W A S T D W T F T L D G A K  GGTAACCTAACCCAAATAGGGAAGTGTTTTTGGACGGCCAAAG  G N L T Q N R E V V Y D S Q S  GACAAGGTCGAAAATAGGGAAGTGGTCTACGACTCGCAAAG  G N L T Q N R E V V Y D S Q S  GACAAGGTCGAAAATAGGGAAGTTATTGACTTTTGGACGCCCAAAG  G N L T Q N R E V V Y D S Q S  GACAAGGTCGAAAATAGGGAAGTTCCAGATTATTGACTTGGATGCT  GACAAGGTCGAAAATAGGGAAGTTCTAAGAGTTTGTGGATGCT  GACAAGGTCGAAAATAGGGAAGTTCAAAAGCTTGAAAG  G N L T Q N R E V V Y D S Q S  GACAAGGTCGAAAATAGGGAAGTTCAAAAGCTTGAAAG  G N L T Q N R E V V Y D S Q S  GACAAGGTCGAAAATAGGGAAGTTCAAAAGCTTGAAAG  G N L T Q N R E V B D Y E M W L L  GACAAGGTCGAAGAGTGCTGCAAAAAAAAAAAAAAAAA	CGC	A	m TTT	Ľτι	CTG	ບ	${ m GTT}$	ഥ	GGT	>	TCA	Ħ	CGA	Д	GTC	യ		
M L V L V T L I F S F S A N  GAAAGCGACTGCACTGGAAGCGAACCTGTTGACGAG  E S D C T G S E P V D A F Q  GAGGCATATGTCTGGTGAGGTCCACGGATCCCAAAGCGAG  E A Y V L V R S T D P K A R  CCAGCGGAGAAAAGCAGGACACCTTGCTGATGAT  P A G E K Q D N T L P V M M  GACTGGGCTTCAACCGATTGGACGCTGATGAT  GACTGGGCTTCAACCGATTGGACGTCTACGACGCGC  D W A S T D W T F T L D G A  GGTAACCTAACCCAAAATAGGGAAGTGGTCTACGACTCGCA  G N L T Q N R E V V Y D S Q  GACAAGGTCGAAAATAGGGAAGTTCCAGATTGAGATGTGATT  D K V E K E V P D Y E M W M  GAAGTGGAAGGTCGACGTCCAAAGAGTTTATGAGATGTGATT  B V E V E V E V P D Y E M W M  ATTATCCCCATCCAAAGGACTTCCAAAAGAGTTT  ATGTATCCCCATCCAAAGGACTTCCAAAAGAGTTT  ATGTATCCCCATCCAAAGGACTTCCAAAAAGCTTGAAAGAGTTT  ATGTATCCCCATCTCAAGGACTTCCAAAAAAGCTTGAAAGAGTTT  ATGTATCCCCATCTCAAAGGACTTCCAAAAAAAAAA	CAT	н	AGC	Ø	GGA	О	GAC	₽	AAA	×	AAG	വ	GCT	H	ggC	ø		
ATGCTGGTTTTCGTCCTGATTTTCTCCTTTTCTGC  M L V L V T L I F S F A  GAAAGCGACTGCACCTGGAACCTGTTGACGCCTTT  E S D C T G S E P V D A F  GAGGCATATGTCCTGGTGAGGTCCACGGATCCCAAAGC  E A Y V L V R S T D P K A  CCAGCCGAGAAAAGCAGACACACGTTGCCGGTGAT  P A G E K Q D N T L P V M  GACTGGGCTTCAACCGATTGGACGGTCACGGTGAT  GACTGGGCTTCAACCGATTGGACGGTCACGGTGAT  GACTGGGCTTCAACCGATTGGACGGTCTTACTTTGGACGG  D W A S T D W T F T L D G  GACTGGGCTTCAACCGATTGGACGGTCTTACTTTGGACGG  D W A S T D W T F T L D G  GACTGGGCTTCAACCGATTGGACGTCTTACTTTTGGACGG  G N L T Q N R E V Y D S  GACAAGGTCGAAGGAAGTTCCAGGTTTATTGAGATGTG  D K V E K E V P D Y E M W  GAAGTGGAAGTCGAGTGCTGCCGTCAAAAGCTTGAAGA  E V E V E K E V P D Y E M W  GAAGTGGAAGTCGAGTGCTGCCGTCAAAAGCTTGAAGA  E V E V E K E V P D Y E F E  ATGTATCCCCATCTCAAGACTGCTAGAAAACTTGAAAAAGCTTGAAAAA  M Y P H L K D C **	GAA	Z	CCA	Õ	GAG	ద	GAT	Σ	CGC	Ø	GCA	Q	GAT	$\Xi$	GTT	Н		
M L V L V L I F S F S  GAAAGCGACTGCACTGGAAGCGAACCTGTTGACGC E S D C T G S E P V D A  GAGGCATATGTCCTGGTGAGGTCCACGGATCCCAA  G A Y V L V R S T D P K  CCAGCCGAGAAAAGCAGGACACCTTTTGGA  D W A S T D W T F T L D  GACTGGGCTTCAACCGATTGGACGTTTACTTTGGA  D W A S T D W T F T L D  GACTGGGCTTCAACCGATTGGACGTTTACTTTTGGA  G N L T Q N R E V V Y D  GACAAGGTCGAAAATAGGGAAGTGGTCTACGA  G N L T Q N R E V V Y D  GACAAGGTCGAAAATAGGGAAGTGGTCTTACGA  G N L T Q N R E V V Y D  GACAAGGTCGAAAATAGGGAAGTTATGAGAT  D K V E K E V P D Y E M  GAAGTGGAAGTCGAGAGTCCTAAAAGCTTGA  GAAGTGGAAGTCGAGAGTCTGCAAAAAGCTTGA  GAAGTGGAAGTCGAGGTCTACAAAAGCTTGA  GAAGTGGAAGTCCGAGTCTAAAAAGCTTGA  ATGTATCCCCATCTAAGGACTGCTAGA  M Y P H L K D C **	DBT:	A	CTT	Ĺτι	AGC	Ø	GAT	M	נכפפ	r	CIC	വ	'GTG	×	AGA	闰		
ATGCTGGTTTTGGTGACCCTGATTTTCTCCTT  M L V L V T L I F S F  GAAAGCGACTGCACTGGAAGCGAACCTGTTGA  E S D C T G S E P V D  GAGGCATATGTCCTGGTGAGGTCCACGGATCC  E A Y V L V R S T D P  CCAGCCGAGAAAAGCAGGACACACGTTGCC  P A G E K Q D N T L P  GACTGGCTTCAACCGATTGGACGTTTACTTT  D W A S T D W T F T L  GGTAACCTAACCCAAATAGGGAAGTGGTCTA  G N L T Q N R E V V Y  GACAAGGTCGAGAAGTTCCAGATTATGA  D K V E K E V P D Y E  GAAGTGGAAGTCGAGAGGTCCAAAAAGCT  E V E V E C R Q K L  ATGTATCCCCATCTAAGGACTGCTAAAAGCT  M Y P H L K D C **	TTC	တ	CGC	Ø	CAA	呂	GGT	>	GGA	А	CGA	Д	GAT	Z	TGA	臼		
M L V L V T L I F S GAAAGCGACTGCACTGGAAGCCGAACCTGT E S D C T G S E P V GAGGCATATGTCCTGGTGAGGTCCACGGA E A Y V L V R S T D CCAGCCGACAAAACCACACGTT P A G E K Q D N T L GACTGGCTTCAACCGATTACGACGTTTAC D W A S T D W T F T GGTAACCTAACCCAAAATAGGGAAGTGGT G N L T Q N R E V V GACAAGGTCGAAAAAAGGAAGTTCCAGATTA D K V E K E V P D Y GAAGTGGAAGTCGAAAAAA E V E K E V P D Y ATGTATCCCCATCTAAGGACTCAAAA  ATGTATCCCCATCAAGGACTCAAAA  ATGTATCCCCATCTAAGGACTTCCAAAAA  ATGTATCCCCATCTAAGGACTTCCAAAAA  ATGTATCCCCATCTAAGGACTTCCAAAAA  ATGTATCCCCATCTCAAAAAA  A T E V E K E V P D X ATGTATCCCCATCTCAAAAA  A T T L K D C *	CTI	[ <del>*</del>	TGA	А	TCC	Д	DDD.	Ц	TTT	Ы	CTA	≯	TGA	田	GCT	Ч		
ATGCTGGTTTTGGTGACCCTGATTTT  M L V L V T L I F  GAAAGCGACTGCACTGGAAGCGAACC  E S D C T G S E P  GAGGCATATGTCCTGGTGAGGTCCAC  E A Y V L V R S T  CCAGCCGAGAAAAGCAGACACAC  D W A S T D W T F  GACTGGGCTTCAACCGATTGGACGTT  G N L T Q N R E V  GACAAGGTCGAGAAATAGGGAAGT  G N L T Q N R E V  GACAAGGTCGAAAAGCAGAAGT  C N E K E V P D  GAAGTGGAAGTCGAGTGCTCAGA  D K V E K E V P D  GAAGTGGAAGTCGAGTGCTCAGA  T T Q N R E V P D  GAAGTGCAAGGTCGAGTGCTCAGA  T T T T T T T T T T T T T T T T T T T	CTC	လ	TGI	>	GGA	А	GTT	Н	TAC	₽	GGI	>	TTA	×	AAA	<b>¼</b> .	ญ	
ATGCTGGTTTTGGTGACCCTGAI  M L V L V T L I  GAAAGCGACTGCACTGGAAGCGA  E S D C T G S E  GAGGCATATGTCCTGGTGAGGTC  C A V L V R S  CCAGCCGAGAAAAGCAGACAA  O M A S T D W T  GACTGGGCTTCAACCGATTGGAC  D W A S T D W T  GACTAGGCTTCAACCCAAAATAGGGA  G N L T Q N R E  GACAAGGTCGAGAAAACGGAGGA  G N L T Q N R E  GACAAGGTCGAGAAACGCACCG  D K V E K E V P  GAAGTGGAAGTCGAGAAGTTCC  GAAGTCGAAAGGCACTGCCG  E V E K E V P  GAAGTCCCAAAACGCACCCG  GAAGTCCCCAAAACGCCCCG  A	TTT	됴	ACC	Д	CAC	H	CAC	₽	GTI	[ <u>T</u> .	AGI	>	AGA	Д	TCA	Õ	CTA	*
ATGCTGGTTTTGGTGACCCT  M L V L V T L  GAAAGCGACTGCACTGGAAG  E S D C T G S  GAGGCATATGTCCTGGTGAG  E A Y V L V R  CCAGCCGAGAAAAGCAGGA  P A G E K Q D  GACTGGGCTTCAACCGATTG  D W A S T D W  GGTAACCTAACCCAAAATAG  G N L T Q N R  GACAAGGTCGAGAAGGAAGT  D K V E K E V  GAAGTGGAAGTCGAGAAGT  CAAAGGTCGAAAGGAAGT  CAAAGGTCGAAAGTCGAAGGAAGT  M Y E V E C C	GAI	Н	CGA	闰	GTC	Ø	CAA	Z	GAC	H	GGA	闰	TCC	ф	3003	ద	CTG	บ
ATGCTGGTTTTGGTGAC M L V L V T GAAAGCGACTGCACTGG E S D C T G GAGGCATATGTCCTGGT E A Y V L V CCAGCCGAGAAAAGCP D W A S T D GACTGGGCTTCAACCGP C W A S T D GACTGGGCTTCAACCGP C W A S T D GACTGGGCTTCAAACGGP C W L T Q N G N L T Q N GAAGTCGAAGGTCGAAAG C N L T Q N GAAGTCGAAGGTCGAAAGGT C N L T Q N GAAGTCGAAGGTCGAAGGT C N L T Q N CACAAGGTCGAAGGT C N L T Q N CACAAGGTCGAAGGT C N L T Q N CACAAGGTCGAAGGT C N L T Q N CACAAGGTCGAAGT C N L T Q N CACAAGGTCGCAACT C N L T Q N CACAAGGTCGAAGT C N L T Q N CACAAGGTCGCAACT C N L T C C C C N L T C C C C N L T C C C C N L T C C C C N L T C C C C N L T C C C C N L T C C C C N L T C C C C N L T C C C C N C C C C C N C C C C C C C C C	Ç	니	AAG	Ø	'GAG	ద	\GGZ	А	\TTG	X	TAG	ĸ	AGT	>	CIG	Ö	\GGZ	Д
ATGCTGGTTTTGGT M L V L V GAAAGCGACTGCAC E S D C T GAGGCATATGTCCT E A Y V L CCAGCCGAGAAA P A S T GACTGGGCTTCAAC D W A S T GGTAACCTAACCC GACAAGGTCGAGA G N L T Q GACAAGGTCGAGAA D K V E K GAAGTGGAAGTCGA E V E K GAAGTGGAAGTCGA E V E K GAAGTGCAACCCATCT ATGTATCCCCATCT	GAC	H	TGG	U	'GGT	>	\GCZ	Q	CGA	Д	AAA	Z	\GGZ	闰	\GTC	ซ		×
ATGCTGGTTTT  M L V L  GAAAGCGACTG  E S D C  GAGGCATATGT  E A Y V  CCAGCCGAGP  P A G E  GACTGGGCTTC  D W A S  GACTGGGCTTC  GACTGGGCTTC  D W E  GACTGGGCTTC  GACTGGGCTTC  ATGTATCCCCP  M Y P H	GG.	>	icac	₽	່ໄດ້ໄ	Ы	AAAZ	呂	AAC	H	CCZ	Q	AGA2	저	CGZ	闰	TCJ	П
ATGCTGGI M L V GAAAGCGI E S D GAGGCATI E A Y CCAGCCGG P A G GACTGGG D W A GGTAACCI G N L GACAAGGI D K V GACAAGGI D K V GACAAGGI D K V GACAAGGI D K V GAAGTGGI D K V GAAGTGGI M Y P		긔	\CT(	υ	\TG1	>	3AGZ	臼	)TT(	Ø	'AAC	E	CGZ	团	\AG1	>	CCC	田
ATGCJ GAAAC GAGGC E A GACTC D W GGTAZ GACAZ GAAGJ B V ATGTZ M Y	[GG.]	>	3CGZ	А	ATZ	×	CGG	ט	3995	Ø	√CCJ	Н	\GG]	>	rggz	闰	\TC(	Д
K N G H G H G H G H G N N N N N N N N N N	[GC]	긔	1AAC	Ø	\GGC	ø	ZAGC	Ø	\CTC	×	3TA?	Z	1CAZ	×	\AG	>	[GT2	≯
	A.	M	Ċ5	臼	Ğ7	闰	ຽ	႖	Ğ7	Д	9	ט	Ğ	Д	ď5	闰	A1	Z

4/ 16

\*

-	•	•	•
	Z	3	Š,
	=		ï
l	j		_
-		-	,

.MIVIVELIFSESANIAYADSESDOSGSEBVDAFOAFSEGKEAYVLVRST MMIVLATVILSESASTALADOPTGKRTEAYVAFNEGKGAYIIVRST MMIVLATVILSFSASTALADOPTGKRTDAYVAFNEGQGAYILVKST MMIVLTLIFSFSASIAYAOSGOSVSDPLDALKAFKDGAGTFLLOKST **** * * * * * * * * * * * * * * * * *	DPKARDOUKGEPAGEKODNTLPVMMTFKNGTDWASTDWTETTDGAKVTAT NLNARDOUKGEATGKKEGNTLPVMMAFKDEGKWVSLPWTFTLDGPKVTAT DLDARDOUKGSATGKKEGNKVPVMMAFKNEGOWVSLPWTFTLDGPKVTAT DPQARDOUKGTPNGNRDGNTLPVTMTYKDDSKWVSLNWMFTLEGANIVAT ******* * * * * * * * * * * * * * * *	L.GNLTQNREVYYDSQSHHOHVDKVEKEVPDYEMWMLDAGGLEVEVECR H.GQRTLKGEVVYDVPSHHOHIEKLESGAYDMWMLEAGGLEVDIECON D.GQRTLKREVVYDVASHHOHVEKLASGAYEMWMLEAGGLEVDIECON LEGKRKQRGELVYDVQSHDOHITKLSSGVYQQWQSNGSADDKDIKCOD	OKLEELASGRNOMYPHLKDC KRYDELTSGOVVIRPODKDC KKYDELTSGOVVIRPODKDC EKFKELTSGIDYIKPOEKGCETSAK
OmCI	OmCI	OmCI	OmCI
TSGP3	TSGP3	TSGP3	TSGP3
TSGP2	TSGP2	TSGP2	TSGP2
Moubatin	Moubatin	Moubatin	Moubatin

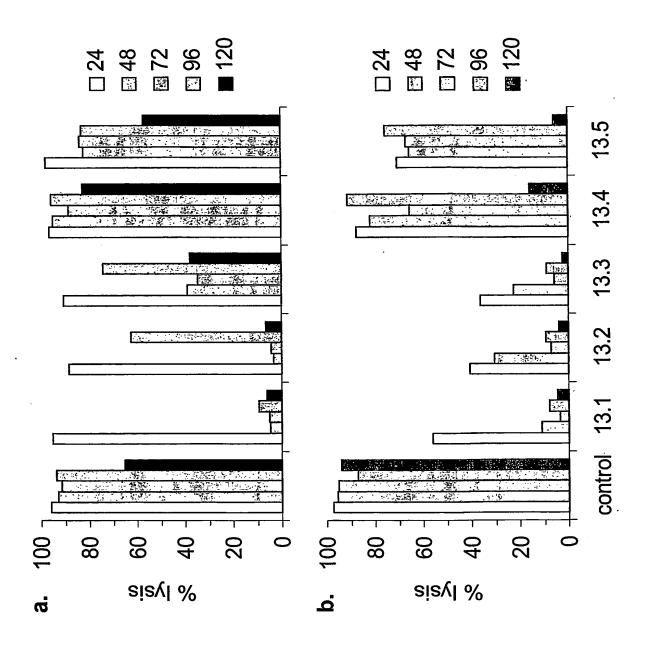
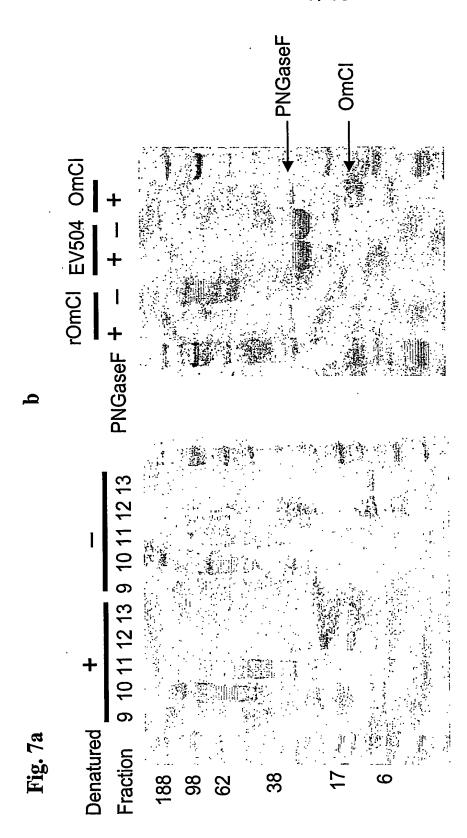


Fig. 6



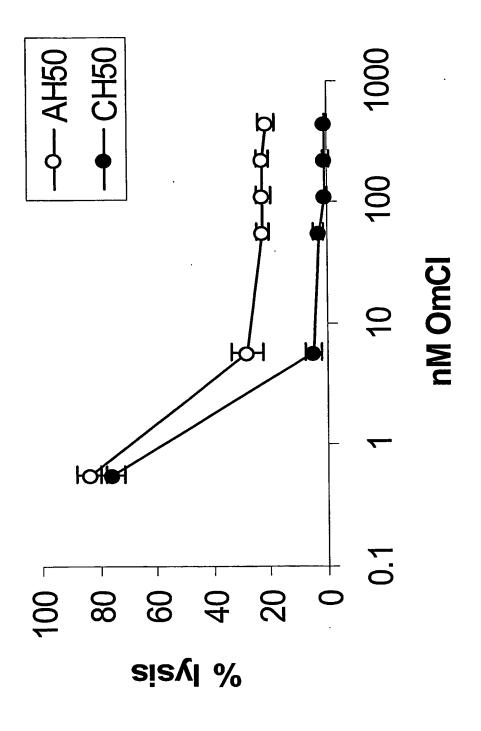


Fig. 8

PCT/GB2004/002341

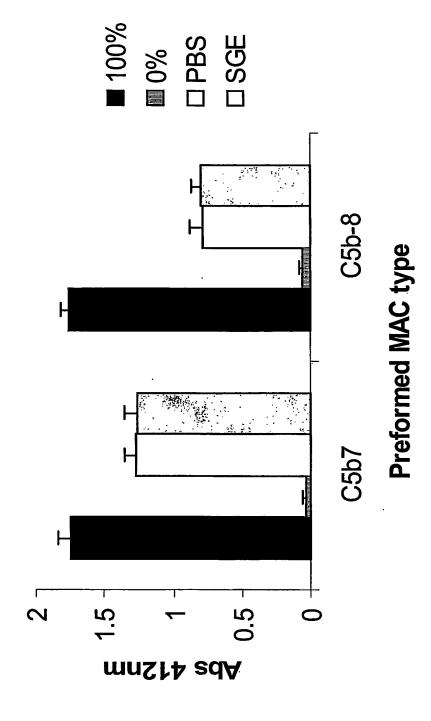


Fig. 9

10/16

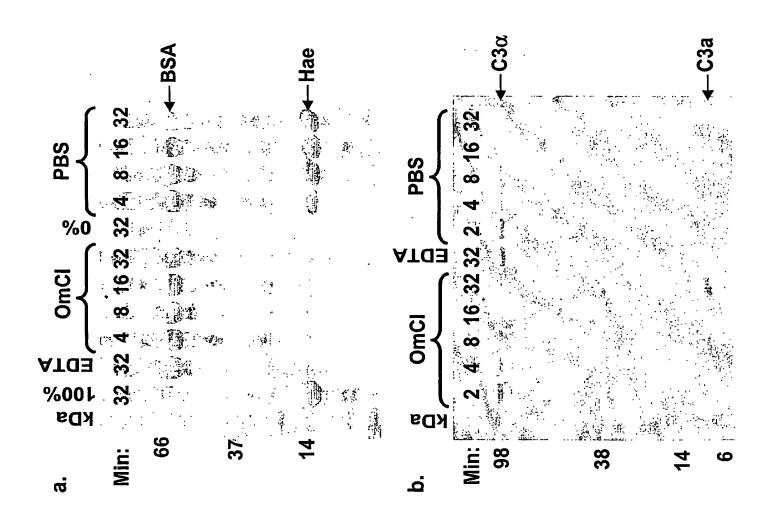


Fig. 1(

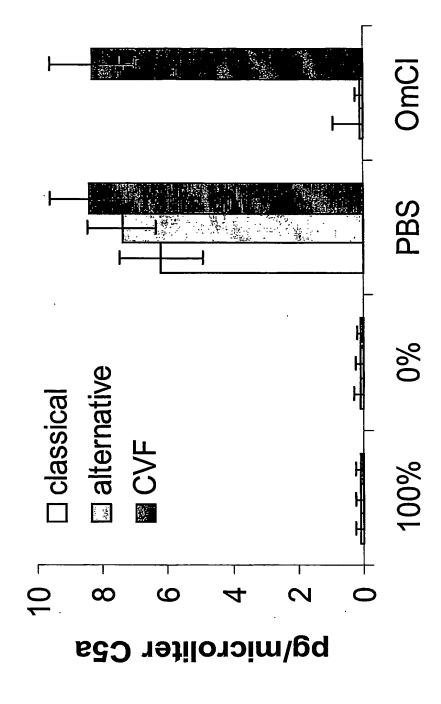
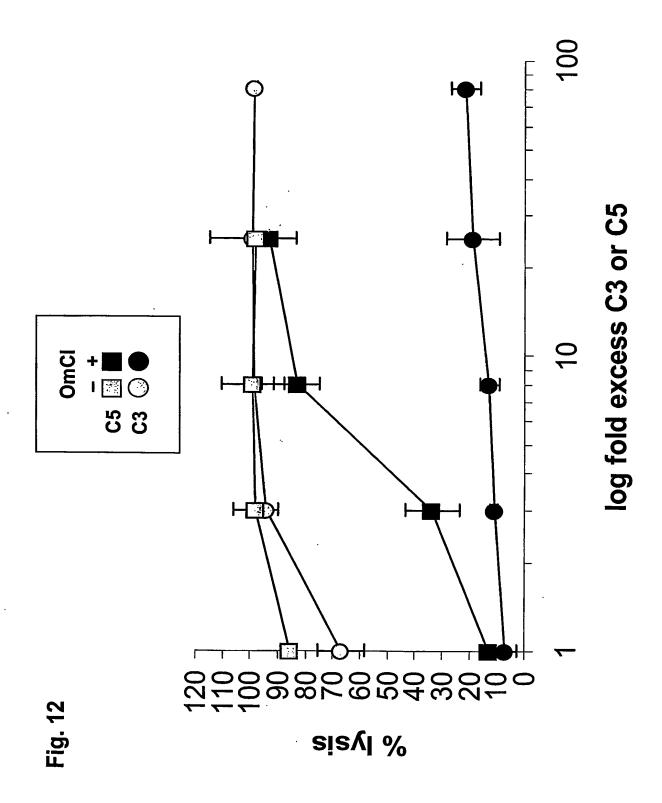


Fig. 1



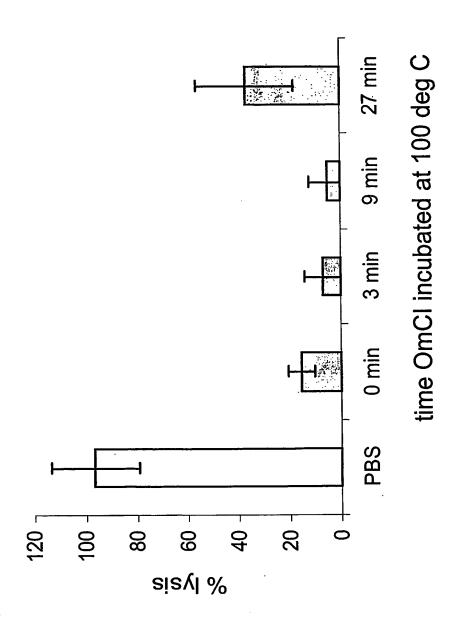


Fig. 13

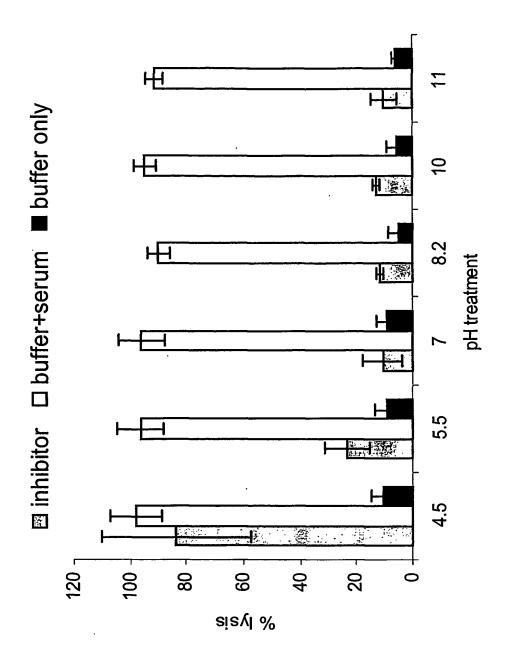


Fig. 12

Fig. 15

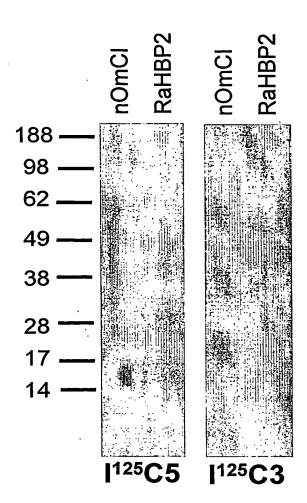


Figure 16

